Recombinant CREB5 protein (His tag)

Catalog Number	540169
Synonyms	CREB-5; cAMP-responsive element-binding protein 5; cAMP-response element-binding protein A; CRE-BPa
Species	Human
Expression System	E. coli
Accession	Q02930
Molecular Weight	Predictes a molecular mass of 10.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	372-447
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 372-447 aa (Q02930) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CREB-5 bZIP Domain Fragment (aa 372-447) - A high-purity protein fragment specifically designed for studying the DNA-binding and dimerization functions of the cAMP-responsive element-binding protein 5. This 76-amino acid fragment fully encompasses the critical bZIP domain, making it an ideal tool for transcriptional regulation research. Cyclic AMP-responsive element-binding protein 5 (CREB-5) is a transcription factor that binds to cAMP response elements and activates gene transcription. This protein functions in the nucleus where it regulates gene expression in response to various cellular signals. The full-length protein plays a crucial role in transcriptional activation pathways, with its activity mediated through specific functional domains including the bZIP domain contained within this recombinant fragment.